Technical Data Sheet

Schulamid 6 MV SHI

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description
High impact modified Polyamide 6

General			
Features	• Grease Resistant • Medium Viscosity	• Oil Resistant • Ultra High Impact Resistance	• Ultra High Toughness
UL File Number	• E86615		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA6-I		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.08	--	g/cm³	ISO 1183/A
Water Absorption				ISO 62
Equilibrium, 73°f (23°c), 50% Rh	2.3	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	261000 (1800)	87000 (600)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Yield)	7250 (50.0)	4350 (30.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	4.0	25	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	> 50	> 100	%	ISO 527-2/1A/50
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°f (-30°c)	12 (25)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	24 ft·lb/in² (50 kJ/m²)	No Break	(kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°f (-30°c)	No Break	--		
73°f (23°c)	No Break	No Break		
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	257 (125)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	122 (50.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	329 (165)	--	°F (°C)	ISO 306/B50
--	410 (210)	--	°F (°C)	ISO 306/A50

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Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	> 1.0E+15	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	> 1.0E+10	ohms·m	IEC 62631-3-1
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate				
0.0787 In (2.00 Mm)	< 3.9 (< 100)	--	in/min (mm/min)	ISO 3795
0.0787 In (2.00 Mm)	< 3.9 (< 100)	--	in/min (mm/min)	FMVSS 302
Flammability Classification				IEC 60695-11-10, -20
0.030 In (0.75 Mm)	HB	--		
0.06 In (1.5 Mm)	HB	--		
0.12 In (3.0 Mm)	HB	--		

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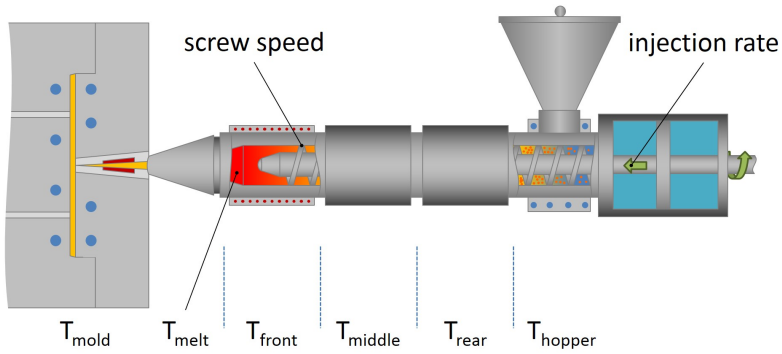

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	482 to 518 °F	250 to 270 °C
Mold Temperature	140 to 194 °F	60 to 90 °C

Notes

These are typical property values not to be construed as specification limits.